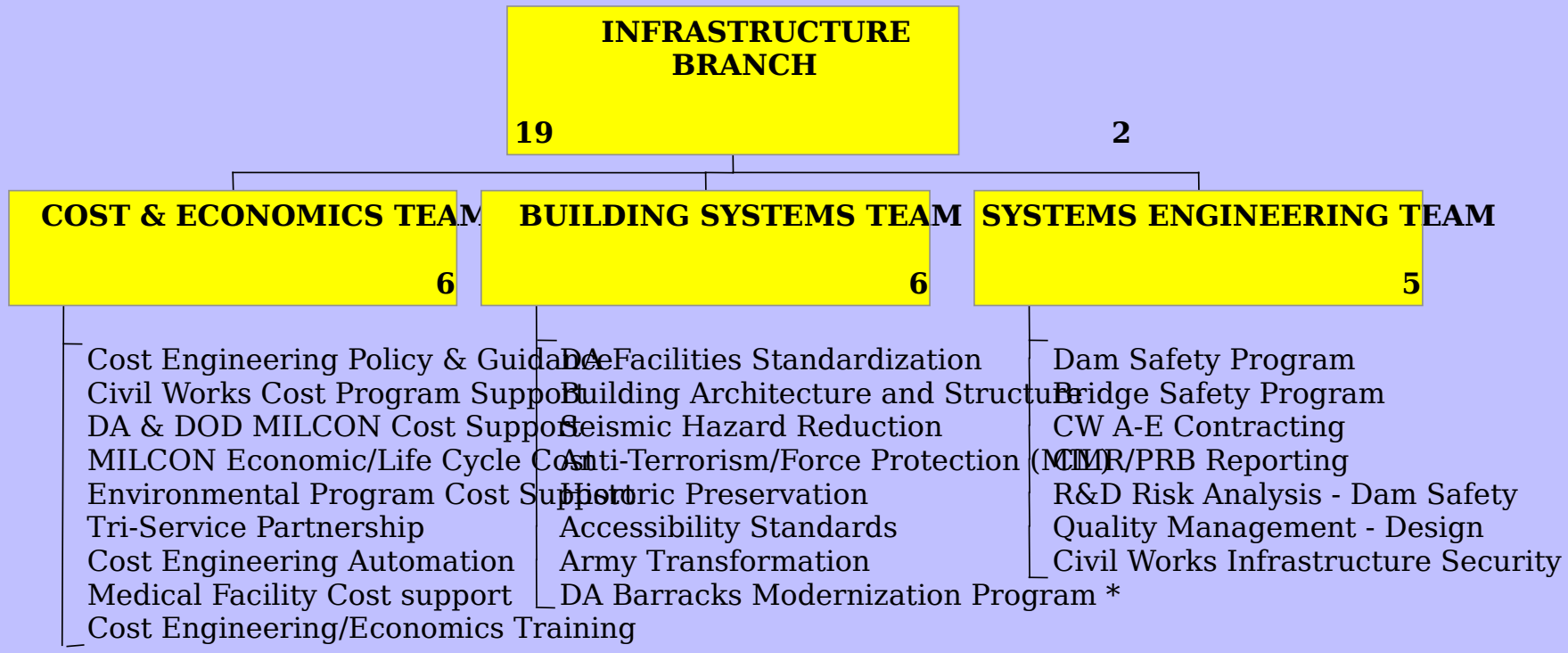
U.S. Army Corps of Engineers

2012 HQ Engineering & Construction

- **Authorized** **68**
- **E&C CoP** **33**
- **SAD RIT** **4**
- **Positions eliminated/reassigned** **31**

U.S. Army Corps of Engineers

Infrastructure Branch



U.S. Army Corps of Engineers

Cost & Economic Team

- Cost and Economic Team
  - Cost Engineering Policy & Guidance
  - Civil Works Program Support
  - DA & DOD MILCON Cost Support
  - MILCON Economic/Life Cycle Cost
  - Environmental Program Cost Support
  - Tri-Service Partnership
  - Cost Engineering Automation
  - Medical Facility Cost Support
  - Cost Engineering/Economics Training

U.S. Army Corps of Engineers

2012 Final Report

- **EliminatION OF DD1391 CERTIFICATION. The Assistant Secretary of the Army for Installations and Environment's direction to conduct planning charrettes for all Army Military Construction (MILCON) projects included in the Program Objective Memorandum (POM) creates a redundant requirement for DD1391 certification.**
-
- **DD1391 certification will be accomplished at the District level for those projects that have not been programmed based on a planning charrette. (See Appendix A, Military Programs.)**

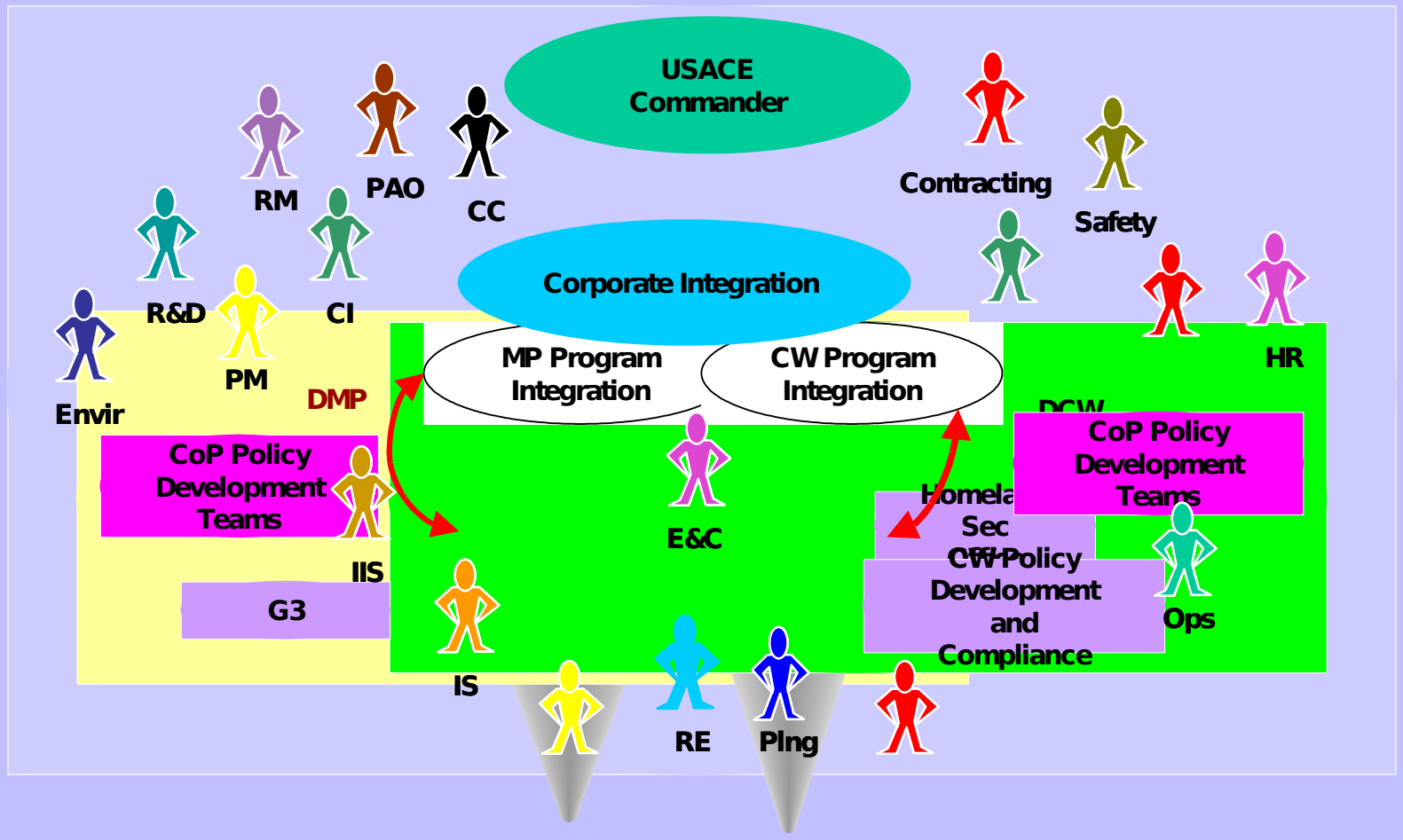
U.S. Army Corps of Engineers

MILCON PROCESS IMPROVEMENTS

- **Army programming and Budgeting – Eliminate the DD1391 review and certification at the Division. Transfer quality control and quality assurance reviews of DD1391 from HQs Washington level to the Regions and Districts.**
- **Move the task of Army budget book preparation to the ACSIM after discussions and concurrence be received from ACSIM.**

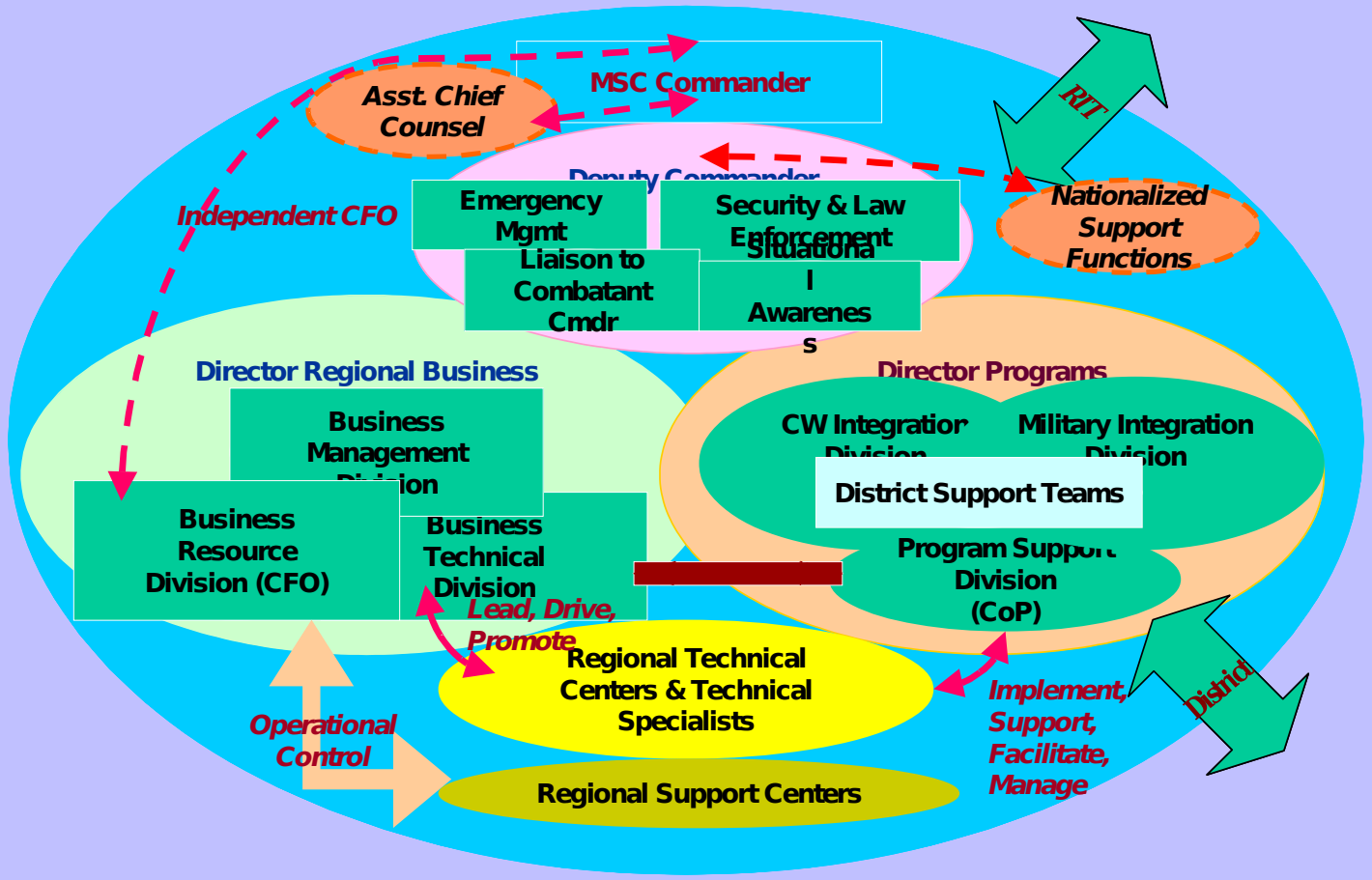
U.S. Army Corps of Engineers

Washington HQ Organizational Concept



U.S. Army Corps of Engineers

MSC Organizational Concept



U.S. Army Corps
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COMMUNITIES OF PRACTICE

U.S. Army Corps of Engineers

Communities of Practice

DEFINITION

- Communities of Practice are defined as individuals that practice and share an interest in a major functional area or business line.

- Communities of practice extend throughout USACE including Districts, Divisions, Washington-level Headquarters, Laboratories, and Centers.

U.S. Army Corps of Engineers

Communities of Practice Primary Functions

To update our policy and doctrine

To develop and maintain a capable workforce

To build national and interagency relations and coalitions

To improve organizational communication

To be a learning organization

U.S. Army Corps of Engineers

Benefits of a CoP

- transfer of best practices and latest business innovations leads to significant time and cost savings
- prevent knowledge loss
- a critical-job knowledge sustainment tool /prevents reinventing the wheel
- promotes innovation
- high-quality information from both inside and outside the community

U.S. Army Corps of Engineers

Communities of Practice Why -- Real Value

Fostering cross-functional collaboration

Connecting isolated units of knowledge into self organized, knowledge sharing networks of professional learning

Nurturing web-based repositories of proven solutions and learning innovative approaches

Developing and communicating best practices faster

U.S. Army Corps of Engineers

Misson CoP's

- Planning,
- Program/Project Management,
- Engineering and Construction,
- Operations and Regulatory,
- Environmental,
- Installation Support,
- Interagency and International Services, and
- Real Estate

U.S. Army Corps
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Support CoP's

- Research and Development,
- Counsel,
- Contracting,
- Human Resources,
- Information Management, and
- Resource Management

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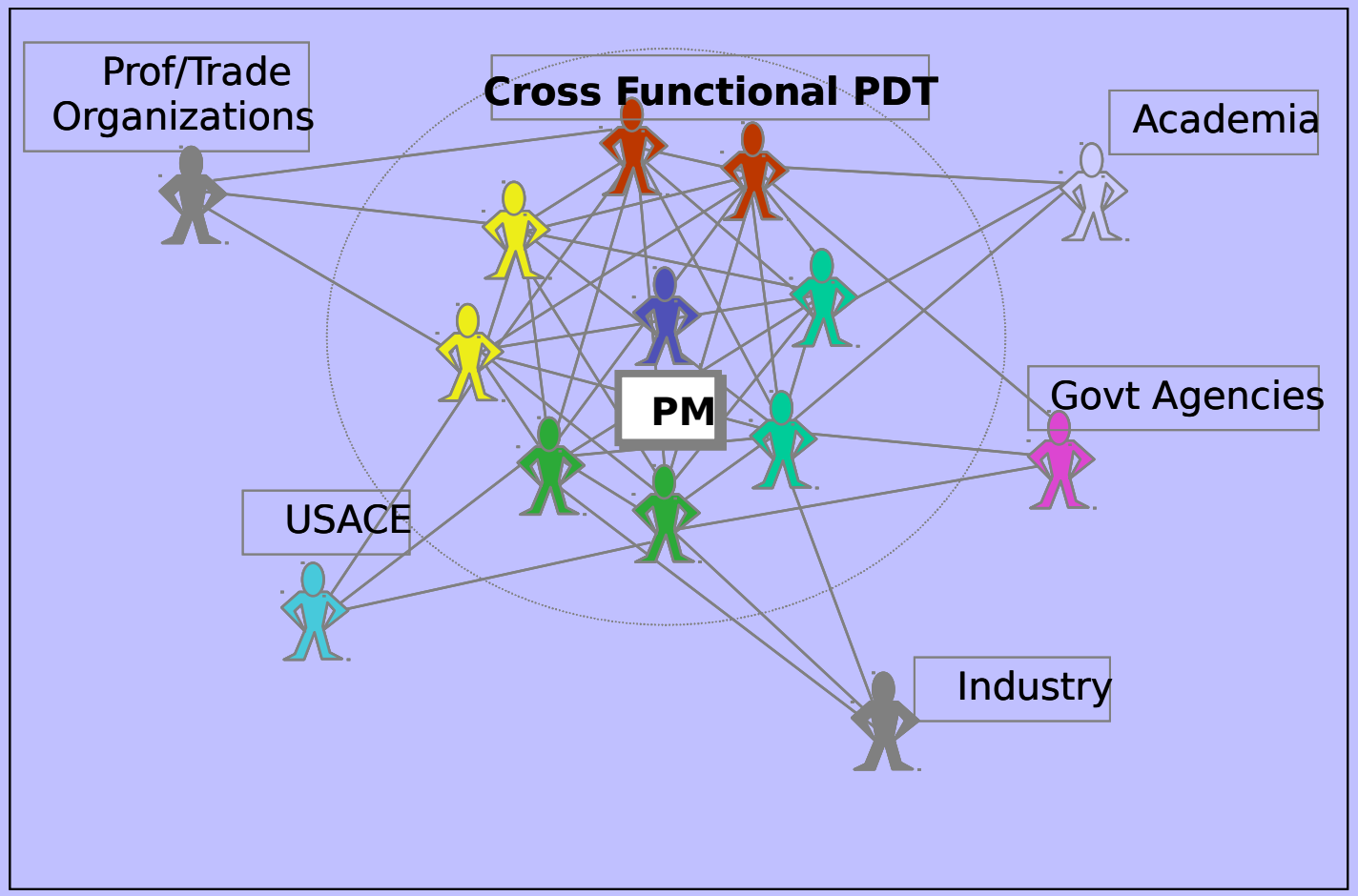
USACE Community of Practice



U.S. Army Corps of Engineers

USACE CoP Structured Type

Purpose	• Provide a cross-functional platform for members who have common objectives
Sponsorship	• Business team/ senior management
Mandate	• Defined by sponsor(s) with endorsement of members
Evolution	• Organizationally determined development based on business objectives
Accountability	• Forms an inherent part of the accountability structure with specific objectives to achieve.
Main outcomes	• Systematic orchestration of communities of practice across the enterprise • Speed of execution • Enterprise-wide alignment • Creative solutions • Enhanced effectiveness of organizational structure
Organizational support	• Full-fledge organizational support on the same basis as organizational segments • Budget allocation as part of the business plan

Table 6. USACE CoP Type: Structured

U.S. Army Corps of Engineers

E&C Sub – CoP's

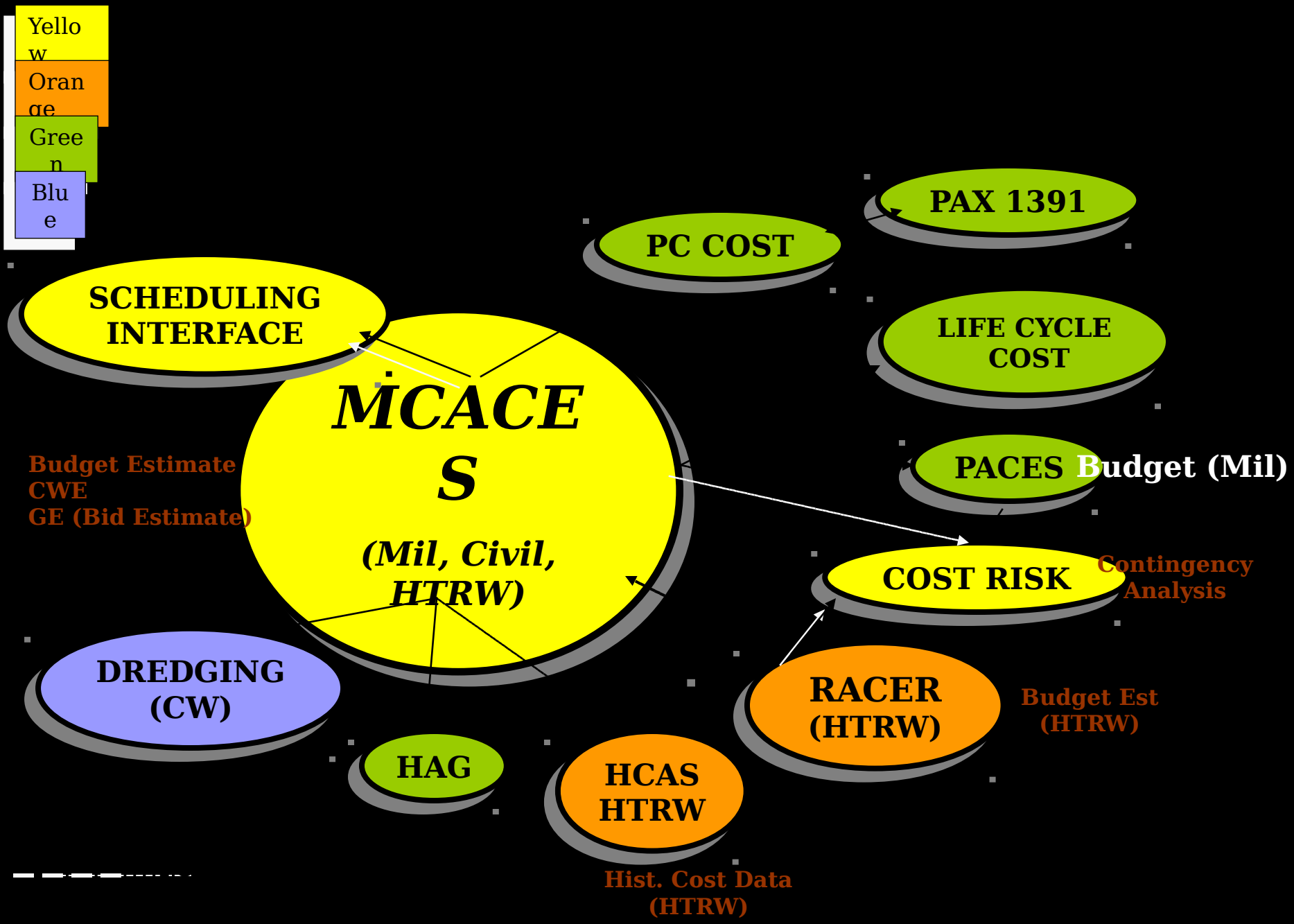
	E&C Sub Communities of Pracdtice (CoP) Name
1	Architecture
2	Civil Engineering (transportation, sanitary, specs)
3	Value Engineering
4	Electrical & Electronic Engineering
5	Cost Engineering
6	Construction Management
7	Dam Safety
8	Master Plan/Facility & Installation Mngemt
9	Environmental Engineering (Noise, Water Quality, Ecosystem and Watershed Assessment, Management and Restoration/Erosion and Sediment Management)
10	Geotechnical Engineering
11	Waste Treatment (HTRW)
12	H & H (water management)
13	Material Engineering (concrete, paint, steel)
14	Physical & Electronic Security Engineering
15	R&D and Numerical Models
16	Mechanical Engineering
17	Structural Engineering
18	CADD (multi-discipline)
19	Geospatial (Surveying, Remote Sensing, GIS)
20	Coastal Engineering

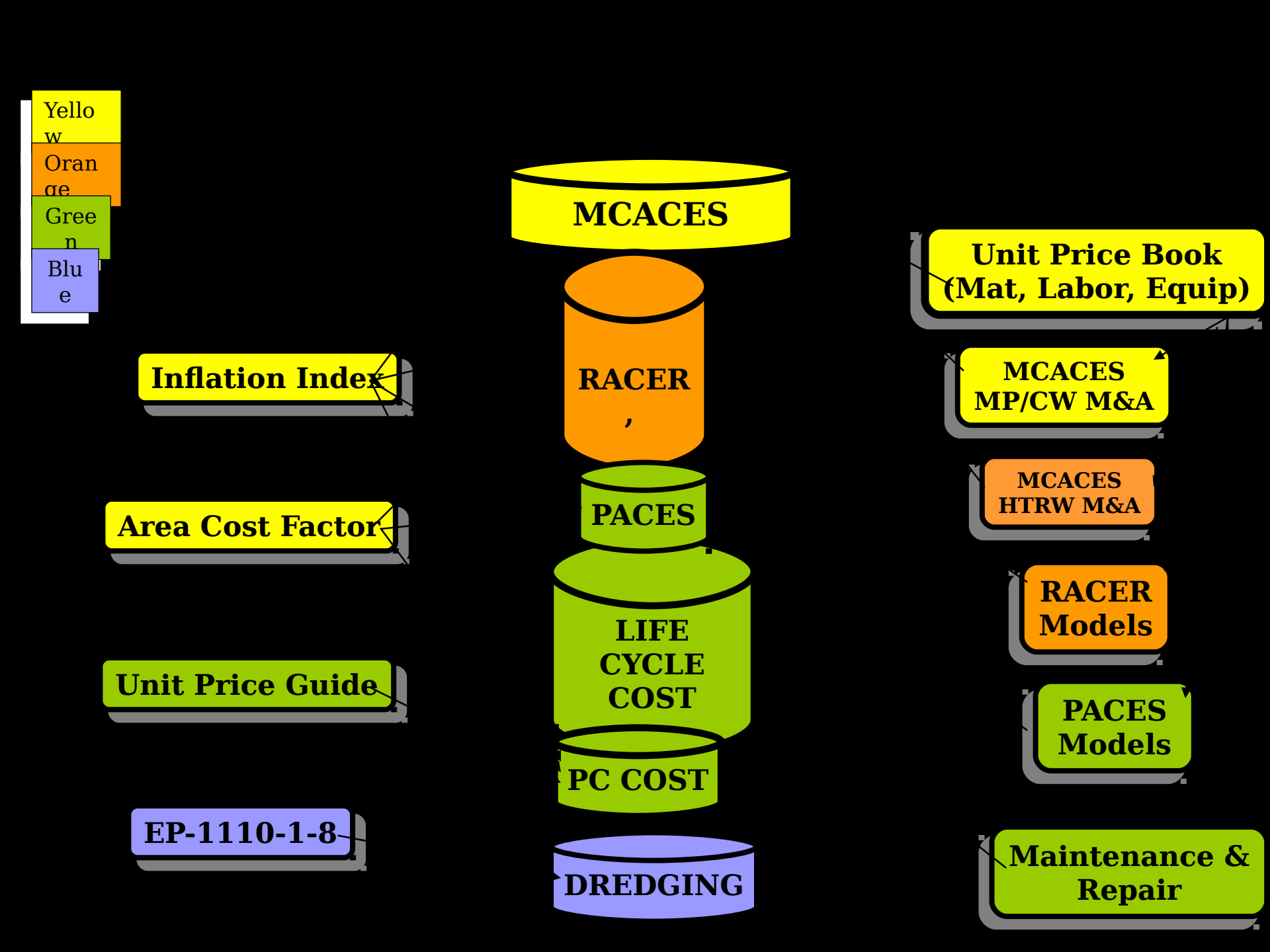
U.S. Army Corps of Engineers

Cost Engineering Sub CoP

- ER 15-1-36 Committee on Cost Engineering 15 Oct 91
- ER 1110-1-1300 Cost Engineering Policy and General Requirements 26 Mar 93
- ER 1110-2-1302 Civil Works Cost Engineering 31 Mar 94
- ER 1110-3-1300 Military Programs Cost Engineering 26 Aug 99
- ER 1110-3-1301 Hazardous,Toxic and Radioactive Waste (HTRW) Cost Engineering 10 Mar 99
- EI 01D010 Construction Cost Estimates 1 Sep 97
- ER 672-1-12 USACE Cost Engineer of the Year 30 Oct 92
- Configuration Management Plan
- Tri-Service Cost Engineering Certification Program
- MCACES for Windows 32 Bit Development Project Management Plan
- Project Management Plan Tri-Service automated cost engineering system

(T R A C E S)


Yellow
Orange
Green
Blue
PAX 1391
PC COST
SCHEDULING INTERFACE
LIFE CYCLE COST
MCACES
(Mil, Civil, HTRW)
Budget Estimate
CWE
GE (Bid Estimate)
PACES Budget (Mil)
COST RISK
Contingency Analysis
DREDGING (CW)
RACER (HTRW)
Budget Est (HTRW)
HAG
HCAS HTRW
Hist. Cost Data (HTRW)


Yellow
Orange
Green
Blue
MCACES
RACER
PACES
LIFE CYCLE COST
PC COST
DREDGING
Inflation Index
Area Cost Factor
Unit Price Guide
EP-1110-1-8
Unit Price Book (Mat, Labor, Equip)
MCACES MP/CW M&A
MCACES HTRW M&A
RACER Models
PACES Models
Maintenance & Repair

U.S. Army Corps
of Engineers

Products

MILCON

- Historical Data
- Area Cost Factors
- DOD Pricing Guide
- DD 1391
- Parametrics
- Eng 3086
- Independent Government Est

Civil Works

- Planning Estimates
- Baseline Estimates
- CWCCIS
- Dredging
- Independent Government Est

- CoP Plans are distinct and separate from functional plans. A CoP is a forum for learning, sharing expertise, and developing the knowledge base of the collective community, and serves as a resource for that knowledge. **In itself, a CoP is not operational in nature.** CoP leaders are the experts responsible for developing policy, concepts, and doctrine as they relate to respective communities. A good analogy would be how career program managers relate to careerists within a common career field, with the addition that members of the CoP will take an active role in knowledge advancement and capability of the CoP. CoPs will be chartered initially for functions listed in the USACE 2012 Plan and will be led by designated National senior leaders. All MSC CoPs will align with and be part of chartered CoPs.

U.S. Army Corps
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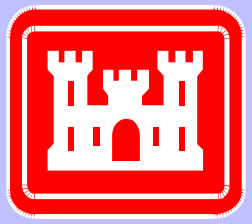
AIS/Databases

MCACES
HAG
CEDEP

- Micro-Computer Aided Cost Estimating System (MCACES)
- Commercial Unit Price Database
- Life Cycle Cost
- Cost Risk.
- Dredge Estimating Program
- Civil Works and Military Construction Cost Indices
- Construction Equipment Databases, EP 1110-1-8



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